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DJT/mlm(dar)  
August 2, 2001

PATENT APPLICATION  
Docket No.: 2479.2021-000  
(TAN00-11)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

0400 08-08-01

Applicants: John E. Hoffmann, George Rodney Nelson, Jr.,  
Daniel I. Riley, Antoine J. Roupheal, James A. Proctor, Jr.

Application No.: 09/773,253 Group: 2631

Filed: January 31, 2001 Examiner: N/A

For: MAXIMIZING DATA RATE BY ADJUSTING CODES  
AND CODE RATES IN CDMA SYSTEM

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on <u>8/10/01</u>	<u>Denise A. Rose</u>
Date	Signature
_____ Denise A. Rose Typed or printed name of person signing certificate	

TRANSMITTAL OF FORMAL DRAWINGS

Assistant Commissioner for Patents  
Washington, D.C., 20231

Sir:

Transmitted herewith are formal drawings, sheets [1/7- 7/7], Figures 1 through 7, for  
filing in the subject patent application. Acceptance of the formal drawings is respectfully  
requested.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By David J. Thibodeau, Jr.

David J. Thibodeau, Jr.

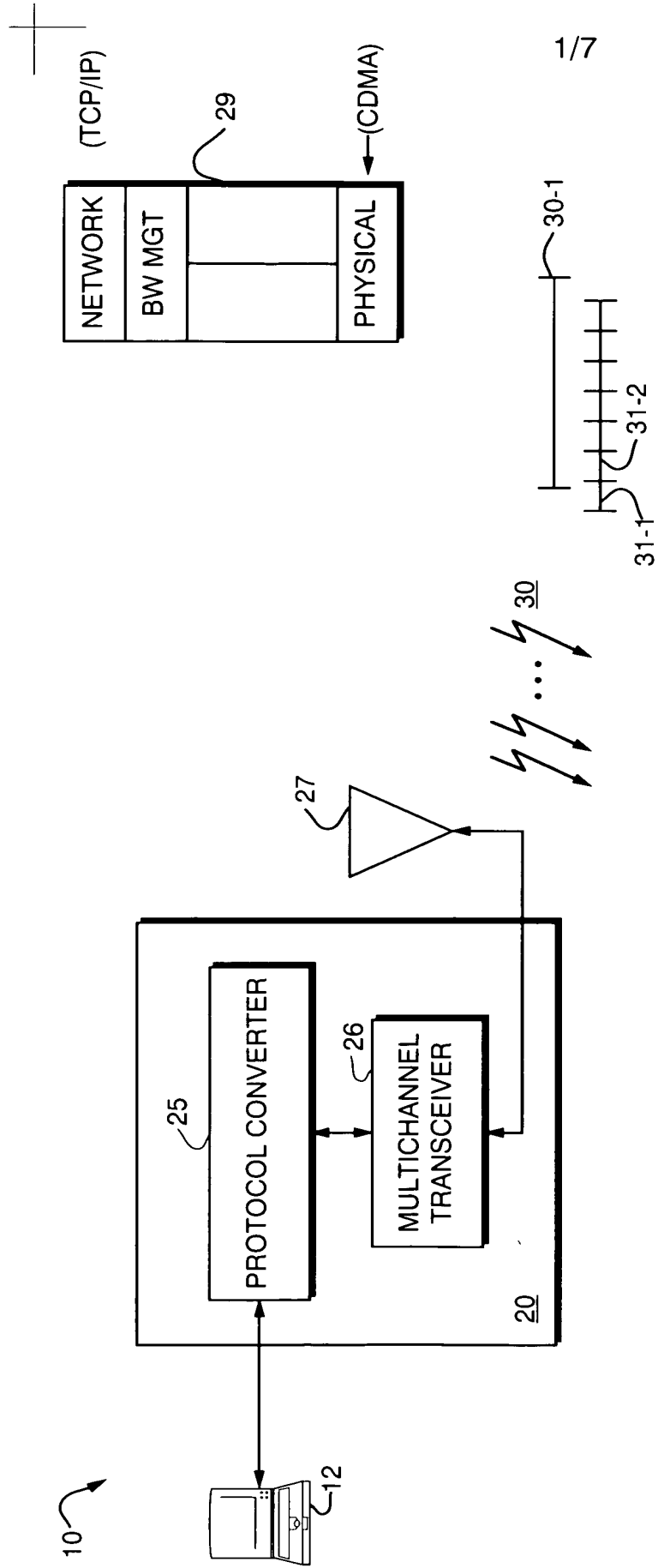
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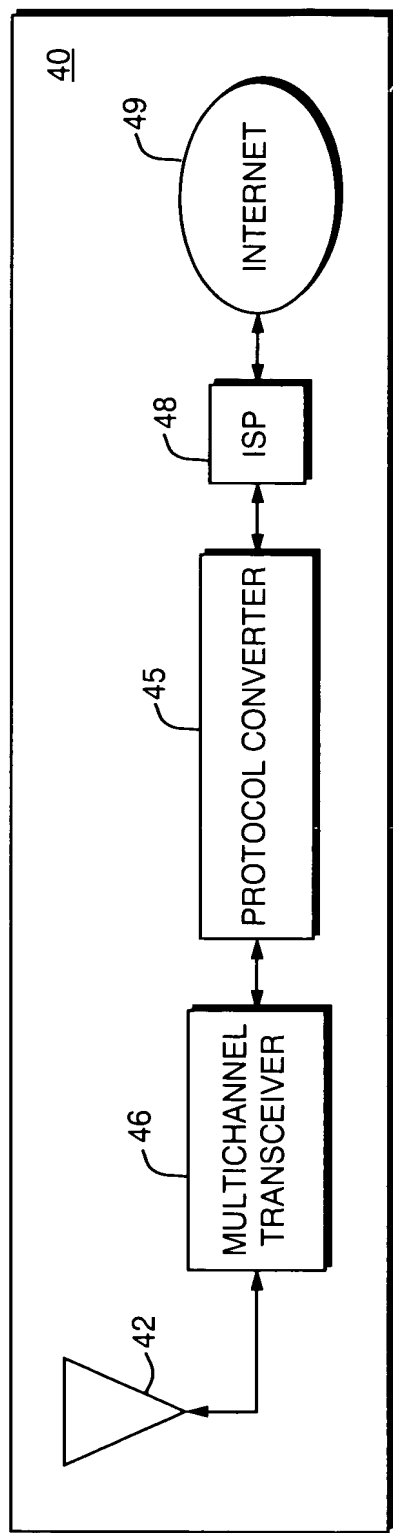


FIG. 1

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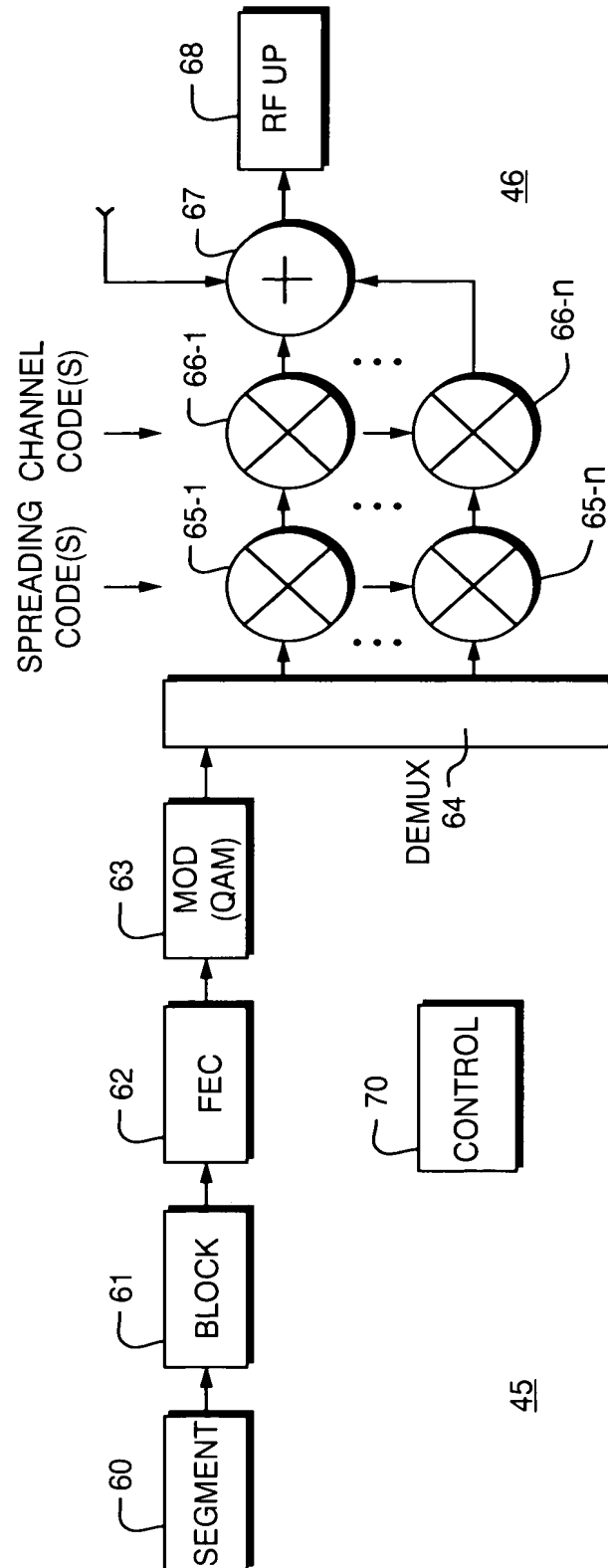


FIG. 2

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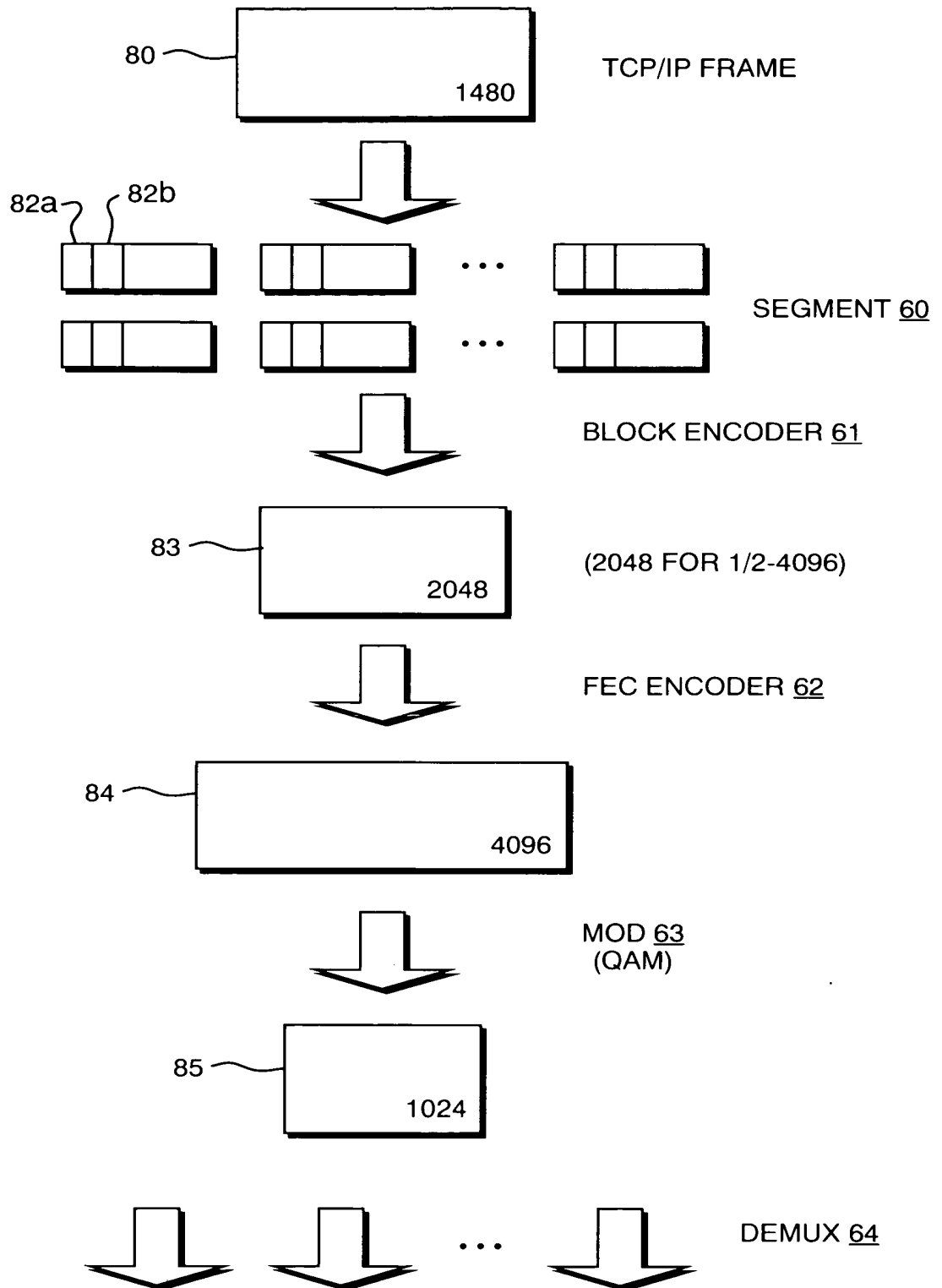


FIG. 3

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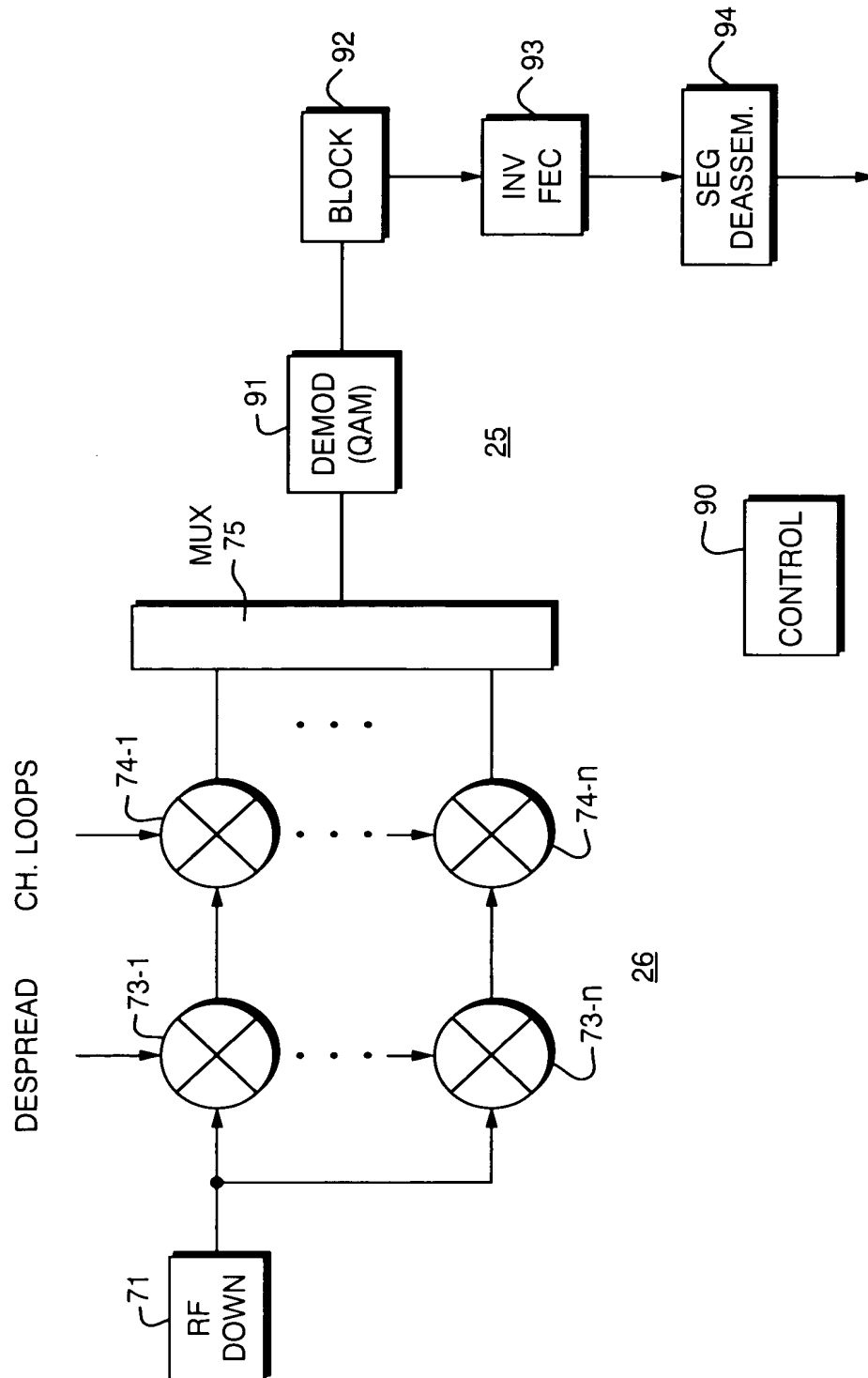


FIG. 4

MOD INFO SIZE	64 3249 4096	64 2048 4096	64 1331 4096	16 3249 4096	16 2048 4096	16 1331 4096	8 3249 4096	8 2048 4096	8 1331 4096	4 3249 4096	4 2048 4096	4 1331 4096
CHANNEL CODES												
2	0.366	0.228	0.150	0.244	0.152	0.100	0.183	0.114	0.075	0.122	0.076	0.050
4	0.731	0.456	0.299	0.487	0.304	0.200	0.366	0.228	0.150	0.244	0.152	0.100
6	1.097	0.684	0.449	0.731	0.456	0.299	0.548	0.342	0.225	0.366	0.228	0.150
8	1.462	0.913	0.599	0.975	0.608	0.399	0.731	0.456	0.299	0.487	0.304	0.200
10	1.828	1.141	0.749	1.218	0.761	0.499	0.914	0.570	0.374	0.609	0.380	0.250
12	2.193	1.369	0.898	1.462	0.913	0.599	1.097	0.684	0.449	0.731	0.456	0.299
14	2.559	1.597	1.048	1.706	1.065	0.699	1.279	0.799	0.524	0.853	0.532	0.349
16	2.924	1.825	1.198	1.949	1.217	0.799	1.462	0.913	0.599	0.975	0.608	0.399
18	3.290	2.053	1.348	2.193	1.369	0.898	1.645	1.027	0.674	1.097	0.684	0.449
20	3.655	2.282	1.497	2.437	1.521	0.998	1.828	1.141	0.749	1.218	0.761	0.499
22	4.021	2.510	1.647	2.680	1.673	1.098	2.010	1.255	0.824	1.340	0.837	0.549
24	4.386	2.738	1.797	2.924	1.825	1.198	2.193	1.369	0.898	1.462	0.913	0.599
26	4.752	2.966	1.947	3.168	1.977	1.298	2.376	1.483	0.973	1.584	0.989	0.649
28	5.117	3.194	2.096	3.411	2.129	1.398	2.559	1.597	1.048	1.706	1.065	0.699

FIG. 5

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MOD TPC RATE SIZE	64 1482 2048	64 858 2048	64 684 2048	16 1482 2048	16 858 2048	16 684 2048	8 1482 2048	8 858 2048	8 684 2048	4 1482 2048	4 858 2048	4 684 2048
CODES												
2	0.333	0.193	0.154	0.222	0.129	0.103	0.167	0.097	0.077	0.111	0.064	0.051
4	0.667	0.386	0.308	0.445	0.257	0.205	0.333	0.193	0.154	0.222	0.129	0.103
6	1.000	0.579	0.462	0.667	0.386	0.308	0.500	0.290	0.231	0.333	0.193	0.154
8	1.334	0.772	0.616	0.889	0.515	0.410	0.667	0.386	0.308	0.445	0.257	0.205
10	1.667	0.965	0.770	1.112	0.644	0.513	0.834	0.483	0.385	0.556	0.322	0.257
12	2.001	1.158	0.923	1.334	0.772	0.616	1.000	0.579	0.462	0.667	0.386	0.308
14	2.334	1.351	1.077	1.556	0.901	0.718	1.167	0.676	0.539	0.778	0.450	0.359
16	2.668	1.544	1.231	1.778	1.030	0.821	1.334	0.772	0.616	0.889	0.515	0.410
18	3.001	1.737	1.385	2.001	1.158	0.923	1.501	0.869	0.693	1.000	0.579	0.462
20	3.335	1.931	1.539	2.223	1.287	1.026	1.667	0.965	0.770	1.112	0.644	0.513
22	3.668	2.124	1.693	2.445	1.416	1.129	1.834	1.062	0.846	1.223	0.708	0.564
24	4.001	2.317	1.847	2.668	1.544	1.231	2.001	1.158	0.923	1.334	0.772	0.616
26	4.335	2.510	2.001	2.890	1.673	1.334	2.167	1.255	1.000	1.445	0.837	0.667
28	4.668	2.703	2.155	3.112	1.802	1.436	2.334	1.351	1.077	1.556	0.901	0.718

FIG. 6

MOD INFO SIZE	64 676 1024	64 363 1024	16 676 1024	16 363 1024	8 676 1024	8 363 1024	4 676 1024	4 363 1024
CODES								
2	0.304	0.163	0.203	0.109	0.152	0.082	0.101	0.054
4	0.608	0.327	0.406	0.218	0.304	0.163	0.203	0.109
6	0.913	0.490	0.608	0.327	0.456	0.245	0.304	0.163
8	1.217	0.653	0.811	0.436	0.608	0.327	0.406	0.218
10	1.521	0.817	1.014	0.545	0.761	0.408	0.507	0.272
12	1.825	0.980	1.217	0.653	0.913	0.490	0.608	0.327
14	2.129	1.143	1.420	0.762	1.065	0.572	0.710	0.381
16	2.434	1.307	1.622	0.871	1.217	0.653	0.811	0.436
18	2.738	1.470	1.825	0.980	1.369	0.735	0.913	0.490
20	3.042	1.634	2.028	1.089	1.521	0.817	1.014	0.545
22	3.346	1.797	2.231	1.198	1.673	0.898	1.115	0.599
24	3.650	1.960	2.434	1.307	1.825	0.980	1.217	0.653
26	3.955	2.124	2.636	1.416	1.977	1.062	1.318	0.708
28	4.259	2.287	2.839	1.525	2.129	1.143	1.420	0.762

FIG. 7